

IN THE CLAIMS

1. (Currently Amended) A multi-process display method of displaying processes to be debugged in a debugger system; comprising the steps of:

monitoring and detecting an operation state change of each of the processes into the debugger system to be debugged;

acquiring the detected operation change of each process into the debugger system;

representing each process using a predetermined graphic symbol;

representing a relationship between the processes using a layout of graphic symbols and lines therebetween, the graphic symbol corresponding to the process and the line representing a parent-child or a brother relationship between the processes;

representing the operation state of each process using a particular display mode for the graphic symbol; and

updating the display mode for the graphic symbol indicating the operation state of each process when detecting the operation state change.

2. (Currently Amended) A multi-process display method according to claim 1, further comprising the step of acquiring detailed information of each process together with the operation state change thereof into the debugger system and displaying and updating, when detecting the operation state change, the detailed information.

3. (Previously Presented) A multi-process display method according to claim 2, further comprising the steps of:

storing an operation state change reported from each process in a table for each process,

wherein the operation state change is detected by monitoring the table

4. (Canceled).

5. (Original) A multi-process display method according to claim 1, wherein the operation states of each process include generation, start, halt, resume, and end of the process.

6. (Currently Amended) A multi-process display method according to claim 2, wherein the operation state display and the detailed information display related to the operation state are conducted on one screen.

7. (Currently Amended) A multi-process display method according to claim 2, wherein the operation state display and the detailed information display related to the operation state are performed, in response to operation of a mouse/keyboard indicating one of the processes on either one of the displays, in an emphasized mode in relation to each other.

8. (Currently Amended) A debugger system, comprising:

means for monitoring and detecting an operation state change of each process of multiple processes to be debugged;

means for acquiring the detected operation state change; and

display means for displaying each process using a predetermined graphic symbol, displaying a relationship between the processes using a layout of graphic symbol and lines therebetween, the graphic symbol corresponding to the process and the line representing a parent-child or a brother relationship between the processes, and displaying the operation state of each process using a particular display mode for the graphic symbol, and updating the display mode for the graphic symbol indicating the operation state of each process when detecting the operation state change.

9. (Currently Amended) A debugger system according to claim 8, further comprising detailed information display means for acquiring detailed information of each process together with the operation state change thereof into the debugger

system and displaying and updating, when detecting the operation state change, the detailed information.

10. (Currently Amended) A program storing instructions executable by a machine to perform method steps for debugging multi-processes, said method steps comprising steps of:

monitoring and detecting an operation state change of each process of multiple processes to be debugged;

acquiring the detected operation state change and detailed information of each process into the debugger system;

displaying each process using a predetermined graphic symbol;

displaying a relationship between the processes using a layout of graphic symbols and lines therebetween, the graphic symbol corresponding to the process and the line representing a parent-child or a brother relationship between the processes;

displaying the operation state of each process using a particular display mode for the graphic symbol;

displaying the detailed information of each process;  
and

updating the display mode for the graphic symbol indicating the operation state of each process and the detailed information when detecting the operation state change.

11. (Previously Presented) A multi-process display method according to claim 5, wherein the graphic symbol representing the process is a rectangle and the particular display mode representing the operation state corresponds to a frame type of the rectangle.

12. (Previously Presented) A multi-process display method according to claim 11, wherein the stated or resumed process is drawn with a bold-line frame, the halted process is drawn with a thin-line frame that is thinner than said bold-line frame, and the ended process is drawn with a dotted-line frame.